

Serial No. 09/993,969

1-23. (cancelled)

24. (previously presented) A patio door assembly as defined in claim 35 wherein said hinge extends from said head member to said sill member, and said inactive leaf of said hinge is longer than said active leaf of said hinge and precisely positions said second door panel in spaced relation between said head and sill members.

25. (previously presented) A patio door assembly as defined in claim 35 wherein said astragal member includes parallel spaced opposite side walls integrally connected by interior and exterior end walls, stop portions integral with said side walls and projecting laterally outwardly from said side walls adjacent said frames of said door panels, a plurality of spaced internal walls extending laterally of said side walls of said astragal member and integrally connecting said side walls, and said internal walls spaced adjacent said interior and exterior end walls of said astragal member having longitudinally extending vertical portions defining holes receiving vertical threaded fasteners extending through said head and sill members.

26. (previously presented) A patio door assembly as defined in claim 35 and including a metal approach member mounted on said sill member, said approach member having an upwardly projecting horizontal track extending between said jamb members and adapted to support a sliding screen door, said approach member including an inner portion defining a groove, and a flexible door seal projecting into said groove.

27. (previously presented) A patio door assembly as defined in claim 35 and including an angular insert strip attached by a snap-fit to exterior portions of said

Serial No. 09/993,969

head and jamb members to define a channel adapted to receive a sliding screen door frame.

28. (previously presented) A patio door assembly as defined in claim 35 wherein each of said door panel frames defines a peripherally extending and laterally outwardly facing external groove, and a rigid spacer member extending within said groove.

29. (original) A patio door assembly as defined in claim 28 wherein said groove in each said door panel frame is defined by spaced inner walls having opposing ribs projecting into said groove, and said spacer member comprises a spacer channel having U-shaped portions engaging said ribs with a snap-fit connection.

30. (previously presented) A patio door assembly as defined in claim 35 and including a latch mechanism mounted within said door panel frame of said second door panel between said parallel spaced inner walls.

31. (Cancelled)

32. (currently amended) A patio door assembly comprising a rectangular main frame including a pair of vertical jamb members rigidly connected by a top head member and a bottom sill member, said main frame further including a vertical astragal member spaced between said jamb members and rigidly connected to said head and sill members, a first door panel within said main frame and including a rectangular door panel frame supporting a glass panel, a second door panel within said main frame and including a rectangular door panel frame supporting a glass panel, said astragal member and each of said door panel frames and said members

Serial No. 09/993,969

of said main frame comprising extrusions of rigid plastics material, said main frame and each of said door panel frames having welded mitered corner joints, a hinge having an inactive leaf secured to said main frame and an active leaf secured to said frame of said second door panel, said first door panel frame having spaced inner walls defining a peripherally extending and laterally outwardly facing external groove, and a rigid spacer member confined within said groove and extending completely around said rectangular door panel frame.

33. (original) A patio door assembly as defined in claim 32 wherein said inner walls of said first door panel frame includes opposing ribs projecting inwardly from said inner walls into said groove, and said spacer member comprises a spacer channel having U-shaped portions engaging said ribs with a snap-fit connection.

34. (previously presented) A patio door assembly comprising a rectangular main frame including a pair of vertical jamb members rigidly connected by a top head member and a bottom sill member, said main frame further including a vertical astragal member spaced between said jamb members and rigidly connected to said head and sill members, a first door panel within said main frame and including a rectangular door panel frame supporting a glass panel, a second door panel within said main frame and including a rectangular door panel frame supporting a glass panel, said astragal member and each of said door panel frames and said members of said main frame comprising extrusions of rigid plastics material, said main frame and each of said door panel frames having welded mitered corner joints, a hinge having an inactive leaf secured to said main frame and an active leaf secured to said frame of said second door panel, said head and jamb members including outwardly projecting double wall exterior portions defining laterally inwardly facing channels, elongated and removable plastic insert strips having an L-shaped cross-sectional configuration and forming snap-fit connections with undercut grooves

Serial No. 09/993,969

within said channels, and said strips including laterally inwardly projecting flanges adapted to retain a frame of a sliding screen door within said head and jamb members.

35. (currently amended) In a patio door assembly including a rectangular main frame having a pair of vertical jamb members rigidly connected by a top head member and a bottom sill member, a separate vertical astragal member spaced between said jamb members and rigidly connected to said head and sill members, a first door panel within said main frame, said first door panel including a rectangular door panel frame supporting a glass panel, a swinging second door panel within said main frame, said second door panel including a rectangular door panel frame supporting a glass panel, said astragal member and each of said door panel frames and said members of said main frame comprising extrusions of rigid plastics material, and said main frame and each of said door panel frames having welded mitered corner joints, the improvement wherein each of said rectangular door panel frames includes elongated door frame members each having parallel spaced outer side walls and inner walls spaced substantially parallel to said outer side walls, a first plurality of spaced internal walls extending laterally between said outer side walls and said inner walls of each said door frame member and integrally connecting said outer side walls to said inner walls, a second plurality of spaced internal walls extending laterally between said inner walls of each said door frame member and integrally connecting said inner walls, said outer and inner side walls and said first and second plurality of internal walls of each said rectangular door panel frame extending completely around the corresponding said glass panel, a hinge having an inactive leaf secured by threaded fasteners to said astragal member, and said hinge having an active leaf secured by threaded fasteners threaded into said internal walls of an adjacent said frame member of said second door panel.